



WEBD 162

Class 14

Chapter 8 - Tables | Chapter 16 pg 441-442

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Tables Use

- ▶ **Tabular data**
- ▶ **Organized rows and columns**
- ▶ **Not for page or content layout**

▶ 2

Tables

- ▶ **Traditionally used HTML attributes to format / layout the table**
- ▶ **Most attributes can be replaced with CSS to comply with HTML5**

▶ 3

Tables - Rows and Columns

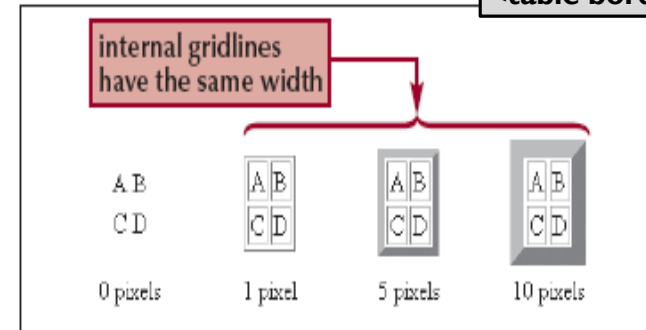
```
<table>
  <tr>
    <td>one</td>
  </tr>
</table>
```

▶

```
<table border="1">
  <tr>
    <td>First Cell</td>
    <td>Second Cell</td>
  </tr>
```

First Cell	Second Cell
Third Cell	Fourth Cell

```
<tr>
  <td>Third Cell</td>
  <td>Fourth Cell</td>
</tr>
</table>
```



**<th> element = header
semantic / accessibility**

```
<table border="1">
  <tr>
    <th>Fruit</th>
    <th>Vegetables</th>
  </tr>
```

Fruit	Vegetables
Apple	Carrot

```
<tr>
  <td>Apple</td>
  <td>Carrot</td>
</tr>
</table>
```

row of table headings

table data cells

[illegible][illegible]

<caption> element - 143 accessibility

```
<table>
  <caption> </caption>

  <tr>
    <td> </td>
  </tr>

</table>
```

centered,
not inside grid lines

All times listed in central time

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
6:00	National News						
6:30	Local News						
7:00	Opera	Radio U	Science	The Living	Word Play	Agri-Week	Folk Fest
7:30	Fest		Week	World	Brain Stew	Bismarck Forum	

Advanced Table Elements – 137, 144

```
<table>
<caption>Nutritional Information (Calorie and Fat
Content)</caption>

<col span="1" class="itemname">
<colgroup id="data">
  <col span="1" class="calories">
  <col span="1" class="fat">
</colgroup>

<thead>
  <tr>
    <th scope="col">Menu item</th>
    <th scope="col">Calories</th>
    <th scope="column">Fat (g)</th>
  </tr>
</thead>
```

colgroup / col

- Add semantic info to columns
- Can apply width using CSS

scope

- Accessibility - describes nature of the columns

Advanced Table Elements - 137

```
<thead>
  <tr>
    <th scope="col">Menu item</th>
    <th scope="col">Calories</th>
    <th scope="column">Fat (g)</th>
  </tr>
</thead>

<tbody>
  <tr>
    <td>Chicken noodle soup</td>
    <td>120</td>
    <td>2</td>
  </tr>
  <tr>
    <td>Caesar salad</td>
    <td>400</td>
    <td>26</td>
  </tr>
</tbody>
</table>
```

Row group elements

- <thead>
- <tbody>
- <tfoot>
- Useful for CSS

Spanning (merging) cells - 139

The colspan attribute of the <td> tag

```
<tr>
  <td colspan="3">
</tr>
```

Political Party		
Democrat	Republican	Independent
70%	35%	55%
25%	60%	30%
5%	5%	15%

this cell spans
three columns

Spanning rows - 141

The **rowspan** attribute of the **<td>** tag

four table cells in the first row

only three table cells are required for the second and third rows

```

<table>
<tr>
<td rowspan="3">1: This cell spans three rows</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
</tr>
</table>

```

HTML code

1: This cell spans three rows	2	3	4
	5	6	7
	8	9	10

resulting table

Space between cells - 142

<table cellpadding="0"> (default is 2)

distance between cells and outer border

deprecated in HTML 5 – use CSS

A	B
C	D

0 pixels

A	B
C	D

1 pixel

A	B
C	D

5 pixels

A	B
C	D

10 pixels

Space inside cells - 142

<table cellpadding="0"> (default is 1)

distance inside the cell – between the content and the edge of the cell

deprecated in HTML 5 – use CSS

A	B
C	D

0 pixels

A	B
C	D

1 pixel

A	B
C	D

5 pixels

A	B
C	D

10 pixels

Setting width / height

Pixel value or percentage

<table width="90%" height="90%">

<table width="700" height="700">

Setting width / height

`<td width="90%" height="90%" >`

All cells in a column will inherit the largest width

`<th width="700" height="700" >`

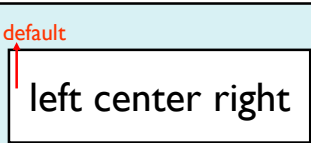
All cells in a row will inherit the largest height

Setting height

`<tr height="90%" >`

`<tr height="700" >`

Horizontal Alignment



align positions horizontally

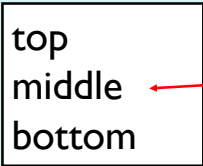
`<td align="center">`

`<tr align="center">`

When used inside the `<td>` it affects that cell

When used inside the `<tr>` it affects all cells in that row

Vertical Alignment



valign positions vertically

`<td valign="top">`

`<tr valign="top">`

When used inside the `<td>` it affects that cell

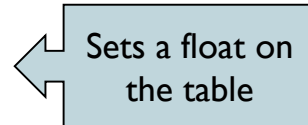
When used inside the `<tr>` it affects all cells in that row

Table Alignment

<table align="center">

<table align="left">

<table align="right">



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Table attribute – can be replaced with CSS

- width
- height
- valign
- align
- border
- cellpadding
- cellspacing

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Table attributes – can't be replace

- colspan
- rowspan

All times listed in central time

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
6:00	National News						
6:30	Local News						
7:00	Opera	Radio U	Science Week	The Living World	Word Play	Agri-Week	Folk Fest
7:30	Fest				Brain Stew	Bismarck Forum	

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CSS specific table properties

border-collapse: collapse;

→ Sets cellspacing to 0

border-collapse: separate;

→ Sets cellspacing to default

border-spacing: pixel value;

→ Sets cellspacing to a value,
- if border-collapse is set to "separate"

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CSS specific table properties

caption-side: top;

→ default

caption-side: bottom;

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CSS specific table properties

empty-cells: show;

→ default

empty-cells: hide;

```
table {
  border-collapse: separate;
  border-spacing: 15px 5px;
  empty-cells: hide;
  border: none;
}
td {
  border: 1px solid purple;
}
```

Cell 1	Cell 2	Cell 3	Cell 4	Cell 5
Cell 6	Cell 7	Cell 8	Cell 9	Cell 10
Cell 11	Cell 12	Cell 13		

▶

Using CSS for table styles

HTML Attribute	CSS Property
align	Align a table: <code>table { width: 75%; margin: auto; }</code> Align within a table cell: <code>text-align</code>
bgcolor	background-color
cellpadding	padding
cellspacing	border-spacing or border-collapse
height	height
valign	vertical-align
width	width
border	border, border-style, or border-spacing
--	background-image

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Border Attribute – replace with CSS

```
<style>
td, th {border: 1px solid #000000}
</style>

<table>
  <tr>
    <td>First Cell</td>
    <td>Second Cell</td>
  </tr>
  <tr>
    <td>Third Cell</td>
    <td>Fourth Cell</td>
  </tr>
</table>
```

First Cell	Second Cell
Third Cell	Fourth Cell

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CSS 3 Structural Pseudo-Classes

Pseudo-class	Purpose
:first-of-type	Applies to the first element of the specified type
:first-child	Applies to the first child of an element (CSS2 selector)
:last-of-type	Applies to the last element of the specified type
:last-child	Applies to the last child of an element
:nth-of-type(n)	Applies to the “nth” element of the specified type Values: a number, odd, or even

Zebra Stripe / Banding – commonly seen in tables

tr:nth-of-type(even) { background-color: #eaeaea; }

